



SEQUENCE LISTING

#19/C

<110> BANNAN, JASON D.  
ZABRISKIE, JOHN B

<120> PEPTIDES USEFUL FOR REDUCING SYMPTOMS OF TOXIC SHOCK  
SYNDROME AND SEPTIC SHOCK

<130> 20164010US2

<140> 09/335,581

<141> 1999-06-18

<150> 08/838,413

<151> 1997-04-07

<150> PCT/US98/06663

<151> 1998-04-01

<150> 09/168,303

<151> 1998-10-07

<160> 80

<170> PatentIn Ver. 2.1

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Sequence derived from staphylococcal and  
streptococcal toxins

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Tyr Gly Gly Xaa Thr Xaa Xaa Xaa Xaa Asn

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sequence derived from staphylococcal and  
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Lys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Asp Xaa Xaa Xaa Arg Xaa Xaa

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Leu Xaa Xaa Xaa Xaa Xaa Xaa Tyr

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sequence derived from staphylococcal and  
streptococcal toxins

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Cys Met Tyr Gly Gly Val Thr Glu His Glu Gly Asn

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<223> Description of Artificial Sequence:Consensus  
sequence derived from staphylococcal and  
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Lys Lys Asn Val Thr Val Gln Glu Leu Asp Tyr Lys Ile Arg Lys Tyr

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Leu Val Asp Asn Lys Lys Leu Tyr

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<223> Description of Artificial Sequence:Consensus  
sequence derived from staphylococcal and  
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sequence derived from staphylococcal and  
streptococcal toxins

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Cys Gly Lys Lys Asn Val Thr Val Gln Glu Leu Asp Tyr Lys Ile Arg  
1 5 10 15

Lys Tyr Leu Val Asp Asn Lys Lys Leu Tyr Gly Cys  
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sequence derived from staphylococcal and  
streptococcal toxins

<400> 7

Cys Met Tyr Gly Gly Val Thr Glu His Glu Gly Asn Lys Lys Asn Val  
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Thr Val Gln Glu Leu Asp Tyr Lys Ile Arg Lys Tyr Leu Val Asp Asn  
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Lys Lys Leu Tyr

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<223> Description of Artificial Sequence:Consensus

sequence derived from staphylococcal and  
streptococcal toxins

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Cys Met Tyr Gly Gly Val Thr Glu His Glu Gly Asn Lys Lys Asn Val

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Thr Val Gln Glu Leu Asp Tyr Lys Ile Arg Lys Tyr Leu Val Asp Asn

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25

30

Lys Lys Leu Tyr Gly Cys

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<210> 9

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<212> PRT

<213> Staphylococcus

<400> 9

Cys Met Tyr Gly Gly Val Thr Leu His Asp Asn Asn

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<210> 10

<211> 12

<212> PRT

<213> Staphylococcus

<400> 10

Cys Met Tyr Gly Gly Val Thr Glu His Asn Gly Asn

1

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<210> 11

<211> 12

<212> PRT

<213> Staphylococcus

<400> 11

Cys Met Tyr Gly Gly Ile Thr Lys His Glu Gly Asn

1 5 10

<210> 12

<211> 12

<212> PRT

<213> Staphylococcus

<400> 12

Cys Thr Tyr Gly Gly Val Thr Pro His Glu Gly Asn

1 5 10

<210> 13

<211> 12

<212> PRT

<213> Staphylococcus

<400> 13

Cys Met Tyr Gly Gly Val Thr Leu His Asp Asn Asn

1 5 10

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<211> 11

<212> PRT

<213> Staphylococcus

<400> 14

Cys Leu Tyr Gly Gly Ile Thr Leu Asn Ser Glu

1 5 10

<210> 15

<211> 12

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<400> 15

Cys Ile Tyr Gly Gly Val Thr Asn His Glu Gly Asn

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<400> 16  
Tyr Ile Tyr Gly Gly Ile Thr Pro Ala Gln Asn Asn  
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<210> 17  
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Cys Met Tyr Gly Gly Val Thr Glu His His Arg Asn  
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Lys Lys Asn Val Thr Val Gln Glu Leu Asp Leu Gln Ala Arg Arg Tyr  
1 5 10 15

Leu Gln Glu Lys Tyr Asn Leu Tyr  
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<210> 19  
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Lys Lys Lys Val Thr Ala Gln Glu Leu Asp Tyr Leu Thr Arg His Tyr  
1 5 10 15

Leu Val Lys Asn Lys Lys Leu Tyr  
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<213> Staphylococcus

<400> 20

Lys Lys Ser Val Thr Ala Gln Glu Leu Asp Ile Lys Ala Arg Asn Phe  
1 5 10 15

Leu Ile Asn Lys Lys Asn Leu Tyr  
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<210> 21

<211> 24

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<213> Staphylococcus

<400> 21

Lys Lys Asn Val Thr Val Gln Glu Leu Asp Ala Gln Ala Arg Arg Tyr  
1 5 10 15

Leu Gln Lys Asp Leu Lys Leu Tyr  
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<210> 22

<211> 24

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<400> 22

Lys Lys Glu Val Thr Val Gln Glu Leu Asp Leu Gln Ala Arg His Tyr  
1 5 10 15

Leu His Gly Lys Phe Gly Leu Tyr  
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<210> 23

<211> 24

<212> PRT

<213> Staphylococcus

<400> 23

Lys Lys Asn Val Thr Leu Gln Glu Leu Asp Ile Lys Ile Arg Lys Ile  
1 5 10 15

Leu Ser Asp Lys Tyr Lys Ile Tyr  
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<210> 24  
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1 5 10 15  
Leu Thr Asp Asn Lys Gln Leu Tyr  
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<210> 25  
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Lys Asp Ile Val Thr Phe Gln Glu Ile Asp Phe Lys Ile Arg Lys Leu  
1 5 10 15  
Tyr Met Asp Asn Tyr Lys Ile Tyr  
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<210> 26  
<211> 24  
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<213> Streptococcus

<400> 26  
Lys Lys Gln Val Thr Val Gln Glu Leu Asp Cys Lys Thr Arg Lys Ile  
1 5 10 15  
Leu Val Ser Arg Lys Asn Leu Tyr  
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<210> 27  
<211> 24  
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<400> 27  
Lys Lys Gln Leu Ala Ile Ser Thr Leu Asp Phe Glu Ile Arg His Gln  
1 5 10 15

Leu Thr Gln Ile His Gly Leu Tyr

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<210> 28

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sequence derived from staphylococcal and  
streptococcal toxins

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<223> XAA may be any amino acid or no amino acid

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<222> (10)..(11)

<223> XAA may be any amino acid

<400> 28

Xaa Xaa Tyr Gly Gly Xaa Thr Xaa Xaa Xaa Xaa Asn

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<222> (18)..(22)

<223> XAA may be any amino acid

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<222> (23)

<223> XAA may be L, I or V

<400> 29

Lys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Asp Xaa Xaa Xaa Arg Xaa Xaa  
1 5 10 15

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Tyr  
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<210> 30

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<212> PRT

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<223> Description of Artificial Sequence:Consensus  
sequence derived from staphylococcal and  
streptococcal toxins

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<221> UNSURE

<222> (6)

<223> XAA may be V or I; preferably V

<220>

<221> UNSURE

<222> (8)

<223> XAA may be L, E, K, P or N; preferably E or L

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<221> UNSURE

<222> (10)

<223> XAA may be D, N, E, Q or H; preferably E

<400> 30

Cys Met Tyr Gly Gly Xaa Thr Xaa His Xaa Gly Asn  
1 5 10

<210> 31

<211> 24

<212> PRT

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<221> UNSURE  
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 <222> (3)  
 <223> XAA may be N, K, S, E, M, I or Q; preferably N

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 <222> (6)  
 <223> XAA may be V, A, L, F or I; preferably V

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 <222> (15)  
 <223> XAA may be R, H, N or K; preferably K

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 <222> (16)  
 <223> XAA may be Y, F, I, L or Q; preferably Y

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 <222> (17)  
 <223> XAA may be L or Y; preferably L

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<222> (22)

<223> XAA may be N, K, G or Q; preferably K

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<223> Description of Artificial Sequence: Consensus  
Sequence derived from staphylococcal and  
streptococcal toxins

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Lys Lys Xaa Val Thr Xaa Gln Glu Leu Asp Xaa Xaa Xaa Arg Xaa Xaa  
1 5 10 15

Xaa Xaa Xaa Xaa Xaa Xaa Leu Tyr  
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<210> 32

<211> 12

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<223> Description of Artificial Sequence: Variants of  
staphylococcal and streptococcal toxins

<400> 32

Cys Met Tyr Gly Gly Val Thr Leu His Asp Gly Asn  
1 5 10

<210> 33

<211> 12

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<223> Description of Artificial Sequence: Variants of  
staphylococcal and streptococcal toxins

<400> 33

Cys Met Tyr Gly Gly Val Thr Leu His Asn Gly Asn  
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<210> 34

<211> 12

<212> PRT

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<223> Description of Artificial Sequence: Variants of  
staphylococcal and streptococcal toxins

<400> 34

Cys Met Tyr Gly Gly Val Thr Leu His Glu Gly Asn  
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<211> 12

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Cys Met Tyr Gly Gly Val Thr Leu His Gln Gly Asn  
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<210> 36

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<223> Description of Artificial Sequence: Variants of  
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<400> 36

Cys Met Tyr Gly Gly Val Thr Leu His His Gly Asn

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<210> 37  
<211> 12  
<212> PRT  
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<223> Description of Artificial Sequence: Variants of  
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Cys Met Tyr Gly Gly Val Thr Glu His Asp Gly Asn  
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<210> 38  
<211> 12  
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Cys Met Tyr Gly Gly Val Thr Glu His Asn Gly Asn  
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<210> 39  
<211> 12  
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Cys Met Tyr Gly Gly Val Thr Glu His Gln Gly Asn  
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<210> 40  
<211> 12  
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<223> Description of Artificial Sequence: Variants of  
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Cys Met Tyr Gly Gly Val Thr Glu His His Gly Asn

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<210> 41

<211> 12

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<223> Description of Artificial Sequence: Variants of  
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Cys Met Tyr Gly Gly Val Thr Lys His Asp Gly Asn

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<210> 42

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<400> 42

Cys Met Tyr Gly Gly Val Thr Lys His Asn Gly Asn

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<210> 43

<211> 12

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<223> Description of Artificial Sequence: Variants of  
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Cys Met Tyr Gly Gly Val Thr Lys His Glu Gly Asn  
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<210> 44  
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<223> Description of Artificial Sequence: Variants of  
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Cys Met Tyr Gly Gly Val Thr Lys His Gln Gly Asn  
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<210> 45  
<211> 12  
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<400> 45  
Cys Met Tyr Gly Gly Val Thr Lys His His Gly Asn  
1 5 10

<210> 46  
<211> 12  
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<223> Description of Artificial Sequence: Variants of  
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<400> 46  
Cys Met Tyr Gly Gly Val Thr Pro His Asp Gly Asn  
1 5 10

<210> 47  
<211> 12

<212> PRT

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<223> Description of Artificial Sequence: Variants of  
staphylococcal and streptococcal toxins

<400> 47

Cys Met Tyr Gly Gly Val Thr Pro His Asn Gly Asn

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<210> 48

<211> 12

<212> PRT

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<223> Description of Artificial Sequence: Variants of  
staphylococcal and streptococcal toxins

<400> 48

Cys Met Tyr Gly Gly Val Thr Pro His Glu Gly Asn

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<210> 49

<211> 12

<212> PRT

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<223> Description of Artificial Sequence: Variants of  
staphylococcal and streptococcal toxins

<400> 49

Cys Met Tyr Gly Gly Val Thr Pro His Gln Gly Asn

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<210> 50

<211> 12

<212> PRT

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<223> Description of Artificial Sequence: Variants of  
staphylococcal and streptococcal toxins

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Cys Met Tyr Gly Gly Val Thr Pro His His Gly Asn

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<210> 51

<211> 12

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staphylococcal and streptococcal toxins

<400> 51

Cys Met Tyr Gly Gly Val Thr Asn His Asp Gly Asn

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<210> 52

<211> 12

<212> PRT

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<223> Description of Artificial Sequence: Variants of  
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<210> 53

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<223> Description of Artificial Sequence: Variants of  
staphylococcal and streptococcal toxins

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<223> Description of Artificial Sequence: Variants of  
staphylococcal and streptococcal toxins

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<210> 55  
<211> 12  
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<223> Description of Artificial Sequence: Variants of  
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<400> 55  
Cys Met Tyr Gly Gly Val Thr Asn His His Gly Asn  
1 5 10

<210> 56  
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<223> Description of Artificial Sequence: Variants of  
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Cys Met Tyr Gly Gly Ile Thr Leu His Asp Gly Asn  
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<210> 57  
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<223> Description of Artificial Sequence: Variants of  
staphylococcal and streptococcal toxins

<400> 57

Cys Met Tyr Gly Gly Ile Thr Leu His Asn Gly Asn  
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<210> 58

<211> 12

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Variants of  
staphylococcal and streptococcal toxins

<400> 58

Cys Met Tyr Gly Gly Ile Thr Leu His Glu Gly Asn  
1 5 10

<210> 59

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Variants of  
staphylococcal and streptococcal toxins

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Cys Met Tyr Gly Gly Ile Thr Leu His Gln Gly Asn  
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<210> 60

<211> 12

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Variants of  
staphylococcal and streptococcal toxins

<400> 60

Cys Met Tyr Gly Gly Ile Thr Leu His His Gly Asn  
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<210> 61  
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<223> Description of Artificial Sequence: Variants of  
staphylococcal and streptococcal toxins

<400> 61  
Cys Met Tyr Gly Gly Ile Thr Glu His Asp Gly Asn  
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<210> 62  
<211> 12  
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<223> Description of Artificial Sequence: Variants of  
staphylococcal and streptococcal toxins

<400> 62  
Cys Met Tyr Gly Gly Ile Thr Glu His Asn Gly Asn  
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<210> 63  
<211> 12  
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<220>  
<223> Description of Artificial Sequence: Variants of  
staphylococcal and streptococcal toxins

<400> 63  
Cys Met Tyr Gly Gly Ile Thr Glu His Glu Gly Asn  
1 5 10

<210> 64  
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<223> Description of Artificial Sequence: Variants of  
staphylococcal and streptococcal toxins

<400> 64

Cys Met Tyr Gly Gly Ile Thr Glu His Gln Gly Asn  
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<210> 65

<211> 12

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Variants of  
staphylococcal and streptococcal toxins

<400> 65

Cys Met Tyr Gly Gly Ile Thr Glu His His Gly Asn  
1 5 10

<210> 66

<211> 12

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Variants of  
staphylococcal and streptococcal toxins

<400> 66

Cys Met Tyr Gly Gly Ile Thr Lys His Asp Gly Asn  
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<210> 67

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Variants of  
staphylococcal and streptococcal toxins

<400> 67

Cys Met Tyr Gly Gly Ile Thr Lys His Asn Gly Asn  
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<210> 68  
<211> 12  
<212> PRT  
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<223> Description of Artificial Sequence: SEC

<400> 68  
Cys Met Tyr Gly Gly Ile Thr Lys His Glu Gly Asn  
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<210> 69  
<211> 12  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Variants of  
staphylococcal and streptococcal toxins

<400> 69  
Cys Met Tyr Gly Gly Ile Thr Lys His Gly Gly Asn  
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<210> 70  
<211> 12  
<212> PRT  
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<220>  
<223> Description of Artificial Sequence: Variants of  
staphylococcal and streptococcal toxins

<400> 70  
Cys Met Tyr Gly Gly Ile Thr Lys His His Gly Asn  
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<210> 71  
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<223> Description of Artificial Sequence: Variants of  
staphylococcal and streptococcal toxins

<400> 71

Cys Met Tyr Gly Gly Ile Thr Pro His Asp Gly Asn

1

5

10

<210> 72

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Variants of  
staphylococcal and streptococcal toxins

<400> 72

Cys Met Tyr Gly Gly Ile Thr Pro His Asn Gly Asn

1

5

10

<210> 73

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Variants of  
staphylococcal and streptococcal toxins

<400> 73

Cys Met Tyr Gly Gly Ile Thr Pro His Glu Gly Asn

1

5

10

<210> 74

<211> 12

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Variants of  
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<400> 80

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1 5 10